

22763  
U.S. PTO

PTO/SB/05 (04-04)

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 88369-CON

First Inventor Ravenscroft, Keith N.

Title Composition and Method For  
Metal Coloring Process

Express Mail Label No. EE353629992US

U.S. PTO  
10/840028  
22141

050504

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 35]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets \_\_\_\_\_]
- Oath or Declaration [Total Sheets 4]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
    - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a.  Computer Readable Form (CRF)

- b. Specification Sequence Listing on:

- i.  CD-ROM or CD-R (2 copies); or
- ii.  Paper

- c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of  
(when there is an assignee)  Attorney
11.  English Translation Document (if applicable)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS  
Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16.  Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
17.  Other: .....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation       Divisional       Continuation-in-part (CIP)      of prior application No.: 10/216,638.....

Prior application information: Examiner Oltmans, Andrew L. Art Unit: 1775  
 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  
 The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**
 Customer Number: 28020      OR       Correspondence address below

Name	Malcolm D. Reid		
Address	Gray, Plant, Moaty, Moaty & Bennett, PA P.O. Box 2906		
City	Minneapolis	State	MN
Country	USA	Telephone	612-632-3304
Zip Code	55402-0906		
Fax	612-632-4444		

Name (Print/Type)	Malcolm D. Reid	Registration No. (Attorney/Agent)	27,065
Signature			
Date	May 5, 2004		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



22752  
U.S.PTO

GRAY  
PLANT  
MOOTY

500 IDS CENTER  
80 SOUTH EIGHTH STREET  
MINNEAPOLIS, MN 55402-3796  
612 632-3000  
Fax: 612 632-4444

1010 WEST ST. GERMAIN STREET  
SUITE 600  
ST. CLOUD, MN 56301  
320 252-4414  
Fax: 320 252-4482  
*Reply to Minneapolis*  
Malcolm D. Reid  
612 632-3304  
malcolm.reid@gpmlaw.com

May 5, 2004

**VIA EXPRESS MAIL (LABEL #EE353629992US)**

BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In re application of: Ravenscroft, Keith N. *et. al.*

Mailed: April 14, 2004 ~~May 5, 2004~~

Title: COMPOSITION AND METHOD FOR METAL COLORING PROCESS

Attorney Docket No.: 88369-CON

**TRANSMITTAL LETTER**

Dear Sir:

Enclosed for filing with the United States Patent and Trademark Office, please find:

1. Transmittal Letter, including mailing by Express Mail under 37 C.F.R. 1.10 (2 Sheets);
2. Utility Patent Application Transmittal Form (Form PTO/SB/05);
3. Preliminary Amendment (8 Sheets);
4. Copy of all application documents filed on behalf of Parent Application Number 10/216,638 (35 Sheets);
5. Copy of Parent Declaration;
6. Fee Transmittal for FY 2004 (in duplicate); and,
7. Postage Paid Postcard Itemizing Above Documents

Please charge the authorized fees of \$602.00, and any other fees required at this time, to Deposit Account 50-0937. If you have any questions, please contact me.

Very truly yours,

Malcolm D. Reid (27,065)  
Attorney for Applicants

Enclosures/GP:1573349 v1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL

## for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 602.00)

## Complete if Known

Application Number	not assigned
Filing Date	May 5, 2004
First Named Inventor	Ravenscroft, Keith N.
Examiner Name	Oltmans, Andrew L.
Art Unit	1775
Attorney Docket No.	88369-CON

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None
 Deposit Account:

Deposit Account Number	50-0937
Deposit Account Name	Gray, Plant, Mooty

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) or any underpayment of fee(s)  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	385.00
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$ 385.00)

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
25	-20** = 5		X 9.00	= 45.0	
7	- 3** = 4		X 43.0	= 172.	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$ 217.00)

\*\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity Small Entity

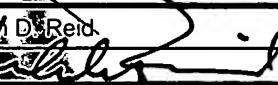
Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath			
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet			
1053 130	1053 130	Non-English specification			
1812 2,520	1812 2,520	For filing a request for ex parte reexamination			
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action			
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action			
1251 110	2251 55	Extension for reply within first month			
1252 420	2252 210	Extension for reply within second month			
1253 950	2253 475	Extension for reply within third month			
1254 1,480	2254 740	Extension for reply within fourth month			
1255 2,010	2255 1,005	Extension for reply within fifth month			
1401 330	2401 165	Notice of Appeal			
1402 330	2402 165	Filing a brief in support of an appeal			
1403 290	2403 145	Request for oral hearing			
1451 1,510	1451 1,510	Petition to institute a public use proceeding			
1452 110	2452 55	Petition to revive - unavoidable			
1453 1,330	2453 665	Petition to revive - unintentional			
1501 1,330	2501 665	Utility issue fee (or reissue)			
1502 480	2502 240	Design issue fee			
1503 640	2503 320	Plant issue fee			
1460 130	1460 130	Petitions to the Commissioner			
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)			
1806 180	1806 180	Submission of Information Disclosure Stmt			
8021 40	8021 40	Recording each patent assignment per property (times number of properties)			
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))			
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))			
1801 770	2801 385	Request for Continued Examination (RCE)			
1802 900	1802 900	Request for expedited examination of a design application			

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

## SUBMITTED BY

Name (Print/Type)	Malcolm D. Reid	Registration No. (Attorney/Agent)	27,065	Telephone	612-632-3304
Signature			Date	May 5, 2004	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

GRAY  
PLANT  
MOOTY

3400 CITY CENTER  
33 SOUTH SIXTH STREET  
MINNEAPOLIS, MN 55402-3796  
  
612 343-2800  
Fax: 612 333-0066  
www.gpmlaw.com

JDING THE LAW FIRM HALL & BYERS, P.A.  
1610 WEST ST. GERMAIN STREET, SUITE 600  
ST. CLOUD, MN 56301  
  
320 252-4414  
Fax: 320 252-4482  
www.gpmlaw.com

Malcolm D. Reid  
612 343-5378

August 8, 2002

**VIA EXPRESS MAIL (LABEL #EE353634065US)**

BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
United States Patent and Trademark Office  
Washington, D.C. 20231

**EE353634065US**

In re Divisional Application of:	Keith N. Ravenscroft and William V. Block
Serial No.	09/710,187 (divisional of 09/317,304)
Original Filing Date:	November 10, 2000
Title:	Composition And Method For Metal Coloring Process
Attorney File No.:	88369

**TRANSMITTAL LETTER – FIRST DIVISIONAL APPLICATION**

Dear Sir:

Enclosed for filing with the United States Patent and Trademark Office, please find the following documents:

1. This Request and Preliminary Amendment for Filing of Divisional Application under 35 U.S.C. 120 and 121, and under 37 C.F.R. 1.53(b)(1), claiming the benefit of the filing date of patent application, Serial No. 09/710,187, filed November 10, 2000; which claimed the benefit of the filing date of patent application, Serial No. 09/317,304, filed May 24, 1999;
2. A copy of patent application, Serial No. 09/317,304 filed May 24, 1999, (22 pages, 28 claims), a copy of the Transmittal Letter-Divisional Application, which includes a Preliminary Amendment filed with Serial No. 09/710,187, on November 10, 2000 (5 pages, 17 claims), including a copy of the filed Executed Combined Declaration and Power of Attorney and of the Verified Statement Claiming Small Entity Status, filed with patent application, Serial No. 09/710,187, dated November 10, 2000 and with Serial No. 09/317,304, dated May 24, 1999;

**BOX PATENT APPLICATION**  
Divisional Application of Serial No. 09/710,187  
August 8, 2002

3. A Petition to Make Application Special under 37 C.F.R. 1.102(b), together with a copy of a Decision on Petition, dated November 1, 2000, granting this same Petition in the parent application, Serial No. 09/317,304, dated May 24, 1999.
4. Information Disclosure Statement, Form PTOL 1449 and copies of documents # A-DD cited thereon;
5. Please debit the Gray, Plant, Mooty, Mooty, & Bennett P.A. Deposit Account, No. 500937 in the amount of \$370 for the filing fee (after entry of the present Preliminary Amendment, so that claims 20-26 are presented for examination, including one (1) independent claim and a total of (7) claims, are presented for examination).
6. Certificate under 37 C.F.R. 1.10 of Mailing by Express Mail; and
7. Postage paid postcard itemizing the above documents.

**PRELIMINARY AMENDMENT**

Please amend the written description and the claims of Serial No. 09/710,187, filed November 10, 2000.

**In The Written Description**

At page 1, after line 2, delete the following:

**“CROSS-REFERENCE TO RELATED PATENT APPLICATION**

This application is a divisional application of Serial No. 09/710,187, filed November 10, 2000, which is a divisional application of Serial No. 09/317,304, filed May 24, 1999.”

In substitution for the information deleted at page 1, after line 2, please add the following:

**“CROSS-REFERENCE TO RELATED PATENT APPLICATION**

This application is a divisional application of patent application, Serial No. 09/710,187, filed November 10, 2000; which claimed the benefit of the filing date of divisional patent application, Serial No. 09/317,304, filed May 24, 1999.”

**BOX PATENT APPLICATION**  
**Divisional Application of Serial No. 09/710,187**  
**August 8, 2002**

**In The Claims**

Before calculation of the filing fee for this divisional application, please cancel original claims 19, 27, and 29-45, so that claims 20-26 are presented for examination.

You are authorized to debit/credit the Gray, Plant, Mooty, Mooty & Bennett, P.A. Deposit Account # 50 0937 for any additional/excess fees relating to this correspondence.

Please note that the enclosed patent application, Serial No. 09/317,304 filed May 24, 1999 is missing the first two lines of the claim. With the first two lines added, the claim reads as follows:

23. The oxidation solution of claim 21, wherein the accelerator is selected from organic and inorganic nitro compounds, alkali metal compounds of citrate, molybdate, polyphosphate, vanadate, chlorate, tungstate, thiocyanate, dichromate, stannate, sulfide and thiosulfate, and stannous chloride and stannic chloride, and mixtures thereof.

If you have any questions, please contact me.

Sincerely,

GRAY, PLANT, MOOTY,  
MOOTY & BENNETT, P.A.

By   
Malcolm D. Reid, Attorney  
Registration No. 27,065

MDR

Enclosures

cc: Norman W. Villwock, President and Chief Executive Officer  
Mark Ruhland, Vice President, Birchwood Laboratories  
William V. Block  
Richard Flint

BOX PATENT APPLICATION  
Divisional Application of Serial No. 09/710,187  
August 8, 2002

Certification under 37 C.F.R. 1.10 of mailing by Express Mail

Express Mail label no: EE353634065. Date of deposit: August 8, 2002 . I hereby certify that the following identified correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, United States Patent and Trademark Office, Washington, D.C. 20231. Transmittal Letter, Request and Preliminary Amendment for Filing of Divisional Application under 35 U.S.C. 120 and 121, and under 37 C.F.R. 1.53(b)(1), claiming the benefit of the filing date of the patent application, Serial No. 09/710,187, filed November 10, 2000 which claimed the benefit of the filing date of patent application, Serial No. 09/317,304 filed May 24, 1999; a copy of the originally filed patent application, Serial No. 09/317,304, filed May 24, 1999 (22 pages, 10 claims, with entry of Preliminary Amendment), a copy of the original Executed Combined Declaration and Power of Attorney, a copy of the original filed Verified Statement Claiming Small Entity Status; A Petition to Make Application Special under 37 C.F.R. 1.102(b), together with a copy of a Decision on Petition dated November 1, 2000, granting this same Petition in the parent application, Serial No. 09/317,304, filed May 24, 1999; Information Disclosure Statement, Form PTOL 1449 and Fee Transmittal for FY 2002 authorizing debit of deposit account 50-0937 \$370.00 in payment of the filing fee (with the entry of the present Preliminary Amendment); and postage paid postpaid itemizing the above documents.

Anne M McCloskey  
Anne McCloskey

GP:906899 v1

BOX PATENT APPLICATION

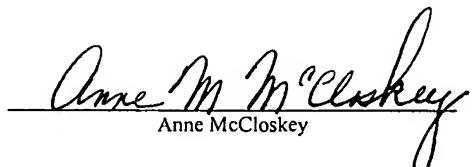
Commissioner for Patents

Page 2

May 5, 2004

**Certificate of Mailing by Express Mail under 37 C.F.R. 1.10**

Express Mail label number: EE353629992US. Date of Deposit: May 5, 2004. I hereby certify that the following identified correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to Box Patent Application, Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450: Transmittal Letter, including mailing by Express Mail under 37 C.F.R. 1.10 (2 Sheets); Utility Patent Application Transmittal Form (Form PTO/SB/05); Preliminary Amendment (8 Sheets); Copy of all application documents filed on behalf of Parent Application Number 10/216,638 (35 Sheets); Copy of Parent Declaration; Fee Transmittal for FY 2004 (in duplicate); and, Postage Paid Postcard Itemizing Above Documents

  
Anne McCloskey